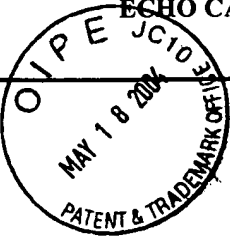
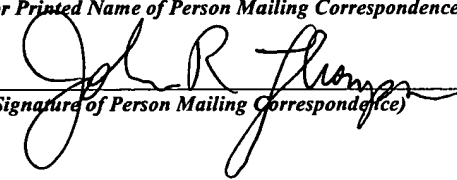


ifw

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)			Docket No. 51764/12
Applicant(s): Jacob H. Gunther			
Serial No. 10/759,626	Filing Date January 16, 2004	Examiner Not yet assigned	Group Art Unit 2681
Invention: ECHO CANCELLATION FILTER			
			
I hereby certify that this <u>Information Disclosure Statement; PTO-1449 with copies of articles; postcard.</u> (Identify type of correspondence)			
is being deposited with the United States Postal Service as first class mail in an envelope addressed to:			
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on <u>May 13, 2004</u> (Date)			
<div>John R. Thompson (Typed or Printed Name of Person Mailing Correspondence)</div> <div> (Signature of Person Mailing Correspondence)</div>			
Note: Each paper must have its own certificate of mailing.			
<div></div>			



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Jacob H. Gunther

Confirmation No. 1233

Application No. 10/759,626

Filed: January 16, 2004

For: **ECHO CANCELLATION FILTER**

Group Art Unit: 2681

Examiner:

Date: May 13, 2004

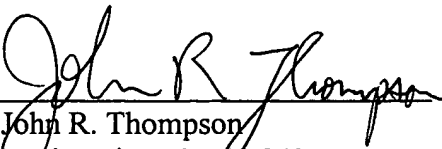
INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to the duty of disclosure, documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.
 - ☒ Copies of listed documents are enclosed. (37 CFR § 1.98(a))
 - ☒ Copies of listed U.S. patent documents are omitted because this application was filed after June 30, 2003 and is, thus, subject to image file wrapper processing. Copies of listed foreign patent documents and non-patent literature are enclosed.
 - ☐ Copies of the documents listed on sheet(s) _____ of Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. _____, filed _____, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. _____, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))
2. ☐ The Examiner's attention is directed to the enclosed copy of copending U.S. Patent Application No. _____, filed _____, for _____, which is cited in this application.
3. This information disclosure statement is being submitted (check box a., b., or c.):
 - a. ☒ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

- b. ☐ After the period set forth in paragraph 3a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
- i. ☐ A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed, or
- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
4. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
5. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

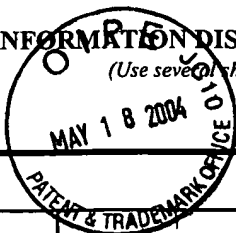
Respectfully submitted,

By 
John R. Thompson
Registration No. 40,842

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Salt Lake City, UT 84111-4904
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Attorney Docket No. 51764/12

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

51764/12

Application Number

10/759,626

Applicant(s)

Jacob H. Gunther

Filing Date

January 16, 2004

Group Art Unit

2681

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	2002/0191779 A1	12/19/02	Pham	379	406.08	03/23/01
	A2	2002/0181699 A1	12/05/02	Pham et al.	379	406.08	03/23/01
	A3	2002/0114445 A1	08/22/02	Benesty et al.	379	406.01	12/05/00
	A4	6,516,050 B1	02/04/03	Tasaki et al.	379	3	10/25/00
	A5	6,507,653 B1	01/14/03	Romesburg	379	406.05	04/14/00
	A6	6,434,110 B1	08/13/02	Hemkumar	370	201	03/20/98
	A7	6,272,106 B1	08/07/01	Kawahara et al.	370	201	05/02/95
	A8	6,181,794 B1	01/30/01	Park et al.	379	410	10/07/97
	A9	5,764,753	06/09/98	McCaslin et al.	379	389	09/29/95
	A10	5,390,250	02/14/95	Janse et al.	379	410	12/17/91
	A11	5,295,136	03/15/94	Ashley et al.	370	32.1	04/13/92

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	B1	Schobben et al., "A Frequency Domain Blind Signal Separation Method Based on Decorrelation," IEEE Transactions on Signal Processing, Vol. 50, No. 8, August 2002, pgs. 1855-1865.
	B2	Torkkola, Kari, "Blind Deconvolution, Information Maximization and Recursive Filters," Motorola, Phoenix Corporate Research Laboratories, 2100 East Elliot Road, MD EL508, Tempe, AZ 85284, USA, 4 pgs.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

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ATTY DOCKET NO.

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10/759,626

Jacob H. Gunther

FILING

January 16, 2004

GROUP

2681

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A12	4,712,235	12/08/87	Jones, Jr.	379	410	11/19/84
	A13	4,268,727	05/19/81	Agrawal et al.	179	170.2	03/14/79
	A14	4,131,767	12/26/78	Weinstein	179	170.2	02/22/78
	A15	Re. 35,574	07/29/97	Russell et al.	380	6	05/23/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		B3	Torkkola, Kari, "IIR Filters for Blind Deconvolution using Information Maximization," Motorola, Phoenix Corporate Research Laboratories, 2100 East Elliot Road, MD EL508, Tempe, AZ 85284, USA, 14 pgs.
		B4	Feder, et al., "Maximum Likelihood Noise Cancellation Using the EM Algorithm," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 37, No. 2, February 1989, pgs. 204-216.

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		B5	Glentis, et al., "A Unified View - Efficient Least Squares Adaptive Algorithms for FIR Transversal Filtering," IEEE Signal Processing Magazine, July 1999, pgs. 13-41.
		B6	Breining, et al., "Acoustic Echo Control - An Application of Very-High-Order Adaptive Filters," IEEE Signal Processing Magazine, July 1999, pgs. 42-69.

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		B7	"Echo Cancellation Filter" parent patent application and drawings, Inventor Jacob H. Gunther, filed 7/9/03, pgs. 1-31.

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